INFORMATION DISCLOSURE		ATTY. [OOCKET NO.	SERIA	L NO.			
CITATION		723-1	450	Link	nown_			
			432 ANT	UIIK	nown_			
() 16	se several sheets if necessary)		KH et al.		<u> </u>			
(Ose several sheets in necessary)		FILING	DATE	GROU	IP			
		Nove	mber 20, 2003	1676	6			
			I.S. PATENT DOCUMENT			-		
*EXAMINER	· · · · · · · · · · · · · · · · · · ·						FILING	DATE
INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	IF APPR	<u>OPRIATE</u>
	5,404,445	4/1995	Matsumoto			<u></u>	<u> </u>	
	5,432,900	7/1995	Rhodes et al		ļ <u>.</u>			_
	5,438,663	8/1995	Matsumoto et			-		
	5,751,295	5/1998	Becklund et a	1			<u> </u>	
	5,805,868	9/1998	Murphy					
	5,936,641	8/1999	Jain et al			_		
	5,995,121	11/1999	Alcokrn et al					
	6,052,133	4/2000	Kang			_		
	6,057,863	5/2000	Olarig					
	6,466,218	10/2002	PARIKH et al					
	6,525,737	2/2003	DULUK et al	•				
	6,434,625	8/2002	LOEN					
	6,401,182	6/2002	SWEENEY					
	6,342,892	1/2002	VAN HOOK et					
	5,913,054	6/1999	MALLICK et a	al.			-	
	5,884,314	3/1999	BULUSU					
	5,812,147	9/1998	VAN HOOK et	al.			. "	
	5,657,479	8/1997	SHAW et al.					
	4,736,330	4/1988	CAPOWSKI					
		FO	REIGN PATENT DOCUM	ENTS				
								LATION
	DOCUMENT	DATE	COUNTRY		CLASS	SUBCLASS	YES	NO
	OTHER DOCU	JMENTS (including Author, Title, D	ate, Pertinent	pages,	etc.)		,
						,		

						-		
	-							
					_			
*Examiner			D-4- 0	noidoned				
	l	· · · · ·	Date Cor					
copy of this form	if reference considered, whether or r with next communication to application	not citation is in on.	conformance with MPEP 609; Draw I	ine through citation i	f not in confo	rmance and not	considered.	Include

INFORMATION DISCLOSURE		ATTY. DOCKET NO	D.	SERIAL NO.			
	CITATION	723-1452		Unknown			
		APPLICANT					
		PARIKH et a	1				
(Use several sheets if necessary)		FILING DATE		GROUP			
		November 20	2003	1676			
			NT DOCUMENTS	1070			
*EXAMINER					-	FILING	
INITIAL	DOCUMENT NUMBER 5,920,876	7/1999	NAME UNGAR et al.	CLASS	SUBCLASS	<u>IF APPRO</u>	OPRIATE
	6,177,944	1/2001	FOWLER et al.				
	6,151,602	11/2000	HEJLSBERG et al.				
	5,870,587	2/1999	DANFORTH et al.		 		
			-				
			. 17 100				
-, .,							
				·			
					ļ	ļ	
					ļ		
					-		
						ļ	
					1		
		FOREIGN P	PATENT DOCUMENTS	l	<u> </u>	l	
		TOTILIGITY	ATEINT BOOOMEINTO		74		LATION
	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	9-330230	12/1997	JAPAN		<u> </u>	Abstract	
					<u> </u>		
			* *				
					ļ		
				•			
			#### · · · · · · · · · · · · · · · · ·		 		
					<u> </u>		
	OTHER DOC!	IMENTS (including	Author, Title, Date, P	ortinent pages		i	
	OTHER DOCK	OMEM 2 (menang	Addition, Title, Date, P	ertinent pages,	etc.)		
<u>-</u>							
							
kEv one in a			Detr Court	1			
*Examiner			Date Considered	1			

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE **CITATION**

(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

 $\frac{723\text{-}1452}{\text{APPLICANT}}$

Unknown

PARIKH et al. FILING DATE

GROUP

November 20, 2003

1676

			•	0/6	<u></u>	
	 .		J.S. PATENT DOCUMENTS			
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME.	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,226,012	5/2001	PRIEM et al.	02/100		ATTION TO THE
	6,198,488	3/2001	LINDHOLM et al.			
	6,181,352	1/2001	KIRK et al.			
	6,173,367	1/2001	ALEKSIC et al.			
	6,092,124	7/2000	PRIEM et al.			
	6,057,852	5/2000	KRECH, Jr.			
	6,037,949	3/2000	DeROSE et al.			
	6,028,611	2/2000	ANDERSON et al.			
	6,025,853	2/2000	BALDWIN			
	6,023,738	2/2000	PRIEM et al.			
	6,002,409	12/1999	HARKIN			
1	5,999,196	12/1999	STORM et al.			
	5,969,726	10/1999	RENTSCHLER et al.			
	5,949,440	9/1999	KRECH, Jr. et al.		,	
	5,949,424	9/1999	CABRAL et al.			
	5,940,086	8/1999	RENTSCHLER et al.			
	5,920,326	7/1999	RENTSCHLER et al.	i		
	5,917,496	6/1999	FUJITA et al.			
	5,874,969	2/1999	STORM et al.			
	5,821,949	10/1998	DEERING			·
	5,815,166	9/1998	BALDWIN			
	5,805,868	9/1998	MURPHY			
	5,801,716	9/1998	SILVERBROOK			
	5,801,706	9/1998	FUJITA et al.			
	5,798,770	8/1998	BALDWIN			
	5,777,629	7/1998	BALDWIN	•		
	5,774,133	6/1998	NEAVE et al.			
	5,768,629	6/1998	WISE et al.			
	5,768,626	6/1998	MUNSON et al.			***************************************
	5,764,243	6/1998	BALDWIN			
	5,758,182	5/1998	ROSENTHAL et al.			
	5,727,192	- 3/1998	BALDWIN			
T	5,721,947	2/1998	PRIEM et al.			
	5,701,444	12/1997	BALDWIN			
	5,687,357	11/1997	PRIEM			
	5,608,424	3/1997	TAKAHASHI et al.			
	5,594,854	1/1997	BALDWIN et al.			
	5,504,917	4/1996	AUSTIN			
			Date Considered			

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

 $\frac{723\text{-}1452}{\text{APPLICANT}}$

Unknown

PARIKH et al. FILING DATE

GROUP

November 20, 2003

1676

	· ·	Ţ	J.S. PATENT DOCUMENTS			
*EXAMINER INITIAL_	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,457,775	10/1995	JOHNSON Jr. et al.			
	5,421,028	5/1995	SWANSON			
	5,392,393	2/1995	DEERING			
	5,392,385	2/1995	EVANGELISTI et al.			
	5,170,468	12/1992	SHAH et al.			
	5,136,664	8/1992	BERSACK et al.			
	4,945,500	7/1990	DEERING			
	4,914,729	4/1990	OMORI et al.			
	4,901,064	2/1990	DEERING			
	4,866,637	9/1989	GONZALEZ-LOPEZ et al.			
	4,862,392	8/1989	STEINER			
	4,829,295	5/1989	HIROYUKI			_
	4,725,831	2/1988	COLEMAN			
	4,658,247	4/1987	GHARACHORLOO			
	4,570,233	2/1986	YAN et al.			
	4,425,559	1/1984	SHERMAN			
	4,388,620	6/1983	SHERMAN			

 DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	. NO
 EP 1 081 649	3/2001	EUROPEAN				
EP 1 075 146	2/2001	EUROPEAN				
EP 1 074 945	2/2001	EUROPEAN				
JP 2000-215325	8/2000	JAPAN (w/English Abstract)				
 JP 2000-207582	7/2000	JAPAN (w/English Abstract)				
 JP 2000-182077	6/2000	JAPAN (w/English Abstract)				
JP 2000-156875	6/2000	JAPAN (w/English Abstract)				
JP 2000-149053	5/2000	JAPAN (w/English Abstract)				\vdash
JP 2000-132706	5/2000	JAPAN (w/English Abstract)				
 JP 2000-132704	5/2000	JAPAN (w/English Abstract)				-
JP 2000-92390	3/2000	JAPAN (w/English Abstract)				
JP 2000-66985	3/2000	JAPAN (w/English Abstract)				
JP 11259678	9/1999	JAPAN (w/English Abstract)				
JP 11259671	9/1999	JAPAN (w/English Abstract)				
				<u> </u>		
		Date Considered	•			

INFORMATION DISCLOSURE	ATTY, DO	OCKET NO.	SERIAL NO.			
CITATION						
	723-14 APPLICA		Unknown			
(Use several sheets if necessary)		H et al.				
(Ose several sheets if necessary)	FILING D	ATE	GROUP			
	Noven	nber 20, 2003	1676			
	FOF	REIGN PATENT DOCUMENTS	···		TDANIO	ATION
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSI YES	I NO
JP 11226257	8/1999	JAPAN (w/English Abstract)		000000		110
JP 11203500	7/1999	JAPAN (w/English Abstract)		-		┼
JP 11161819	6/1999	JAPAN (w/English Abstract)		<u> </u>		
JP 11076614	3/1999	JAPAN (w/English Abstract)		-		<u> </u>
JP 11053580	2/1999	JAPAN (w/English Abstract)				<u> </u>
WO 94/10641	5/1994	WIPO				<u> </u>
CA 2,070,934	12/1993	CANADIAN		 		
		icluding Author, Title, Date, Pe	rtinent nages	etc)		<u></u>
Photograph of Sony Plays			timent pages,	(10.)		
Photograph of Sega Drea						
Photograph of Nintendo 6						
		l, November 11, 1999, www.nvidia.com	1		<u>-</u> .	
		on and More W-Buffering", Doug Ro		. 2000. www.ny	vidia.com	
		ray and GL_NV_fence, posted 8/1/2				
		ring in OpenGL, posted 7/17/2000, v				
		in D3D, posted 4/5/2000, www.nvidia				
Whitepaper: Guard Band	Whitepaper: Guard Band Clipping, posted 1/31/2000, www.nvidia.com					
Whitepaper: Cube Enviro	nment Mapp	ing, posted 1/14/2000, www.nvidia.com	1			
		d 1/11/2000, www.nvidia.com		•		-
		X7 for the GeForce 256, 1/5/2000, v				
		the GeForce 256, 1/3/2000, www.nvid	ia.com	•		
		ding, 12/3/1999, www.nvidia.com				
		with Fast Writes, 11/10/1999, www.	nvidia.com			
		ng, 11/10/1999, www.nvidia.com				
	Technical Brief: What's New With Microsoft DirectX7, posted 11/10/1999, www.nvidia.com					
Mitchell et al., "Multitext	turing in Dire	ctX6", Game Developer, September	1998, www.gdmag	.com		
		rocessing Unit", ©2000 www.vision		 	0 AMY D	 ;
	Jim Bushnell et al. "Advanced Multitexture Effects With Direct3D and OpenGL", Pyramid Peak Design & ATI Research					esearch
Inc., GameDevelopers Conference, ©1999 Sony PlayStation II Instruction Manual, Sony Computer Entertainment Inc., ©2000						
Stand and Be Judged, Next Generation, May 2000						
	PlayStation II: Hardware Heaven or Hell?, Next Generation, January 2000					
	Chris Charla, "Play Station II: The Latest News", Next Generation, September 1999					
	"First PlayStation II Gameplay Screens Revealed!", Next Generation, September 1999					
Game Enthusiast Online						-
Game Enthusiast Online I						
	Game Enthusiast Online Highlights, March 17, 1999					
Game Enthusiast Online						
		Game Week, September 29, 1999				
er		Date Considered				

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

*Examiner

7

	INFORMATION DISCLOSURE	ATTY. DOCKET NO.	SERIAL NO.
	CITATION	723-1452	Unknown
		APPLICANT	
		PARIKH et al.	
	(Use several sheets if necessary)	FILING DATE	GROUP
		November 20, 2003	1676
	OTHER DOCU	MENTS (including Author,	Title, Date, Pertinent pages, etc.)
	Inside Sony's Next Generat		
	Press Releases, March 18,		
		n Part Deux", Press Start, ©19	
			into Wholly-Owned Subsidiaries", March 9, 1999
			ext Generation, March 16, 1999
			it-Nikkei, Dow Jones News Service, March 8, 1999
			ame System, Dow Jones News Service, March 4, 1999
			Windows; Controversial Emulator of Sony PlayStation Games
		cs Only, Business Wire, Marc The Tampa Tribune, March 12	
-			AC's, 4 Floating-Point Dividers, and an MPEG2 Decoder, 1999
		ate Circuits Conference, Febr	
		ual, Sega Enterprises, Ltd., ©	
			Business News, February 16, 2000
	David Pescovitz, "Dream C		
			anted To Know About Sega's Powerful New Console", Official
	Sega Dreamcast Magazine,	June 1999	
	2D/3D Graphics Card User	Manual, Guillemot ©1999	
		oklet, Nintendo of America, 1	1 0
		PlayStation II", Newsweek, N	
			tion II", Wired, November 1999
			puter Entertainment Inc., ©1999
	Leadtek GTS, August 3, 20		
	Voodoo 5 5500 Review, Ju		
		OEM, August, 19, 2000, www	
			Performance Sheet, www.xbox.com
		rees", Computer Graphics, Vo	ment of Computer Science, Univ. N.C, Chapel Hill, N.C. pp. 1-7
			omputer Graphics Proceedings, Annual Conference Series, 1997
			One", www.gamasutra.com, November, 10, 2000
			e Data, Graphics Gems IV, Edited by Paul S. Heckbert,
	, i	_	ity, Academic Press, Inc., 1994,pp.433-437
			tech/JPL, pp. 286-292, SIGGRAPH 78 (1978)
			ng", AK Peters, Ltd., ©1999, pp. 127-142
		rtex Buffers, posted 6/12/2000	
	Technical Presentation: Ha	rdware Transform and Lightin	g, www.nvidia.com, posted 6/12/2000
	Technical Presentation: Ha	rdware Bump-mapping Choice	es and Concepts, 6/07/2000, www.nvidia.com
	Technical Presentation: Ho	w to Bump Map a Skinned Po	lygonal Model, 6/7/2000, www.nvidia.com
	Technical Presentation: Co	mputations for Hardware Ligh	ting and Shading, 3/17/2000, www.nvidia.com
	1 1		

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Date Considered

INFORM <i>A</i>	ATION DISCLOSURE	ATTY. DOCKET NO.	SERIAL NO.		
	CITATION	723-1452	Unknown		
		APPLICANT			
		PARIKH et al			
(Use se	veral sheets if necessary)	FILING DATE	GROUP		
-		Unknown	1676		
			or, Title, Date, Pertinent page		
			oday's GPUs, 3/17/2000 www.nvi	dia.com	
			g, 3/17/2000 www.nvidia.com		
	 ''-	7	ers, 3/17/2000,www.nvidia.com		
			, 3/15/2000 www.nvidia.com		
	rechnical Presentation: Too				
	rechnical Presentation: D3I				
			Dietrich) 3/14/2000 www.nvidia.com		
			NT Combiners, 12/8/1999, www	.nvidia.com	
			n, 11/12/1999, www.nvidia.com		
	rechnical Presentation: Ver				
			Lighting, 11/12/1999, www.nvidia.	com	
	Technical Presentation: C				
			nagement, 11/12/1999 www.nvidi	a.com	
	Technical Presentation: [
	· · · · · · · · · · · · · · · · · · ·		ration, 11/3/1999, www.nvidia.com		
	Technical Presentation: Phong Shading and Lightmaps, 11/3/1999, www.nvidia.com				
			tension, 11/3/1999 www.nvidia.com		
	Technical Presentation: N				
	Technical Presentation: Em		·-···		
			opic Lighting, 11/3/1999 www.nvid	ia.com	
	Technical Presentation: Gua				
			3.1, Pixar Animation Studios, Sept	- · · · · · · · · · · · · · · · · · · ·	
			on Studios, July 2000, www.pixar.com		
			A Corporation, 8/21/00, www.nvidia		
			ncast Review, Sega, 2/99, www.	game-revolution.com	
	Marlin Rowley, "GeForce 1				
'	'Dreamcast: The Full Story	", Next Generation, Septem	ber 1998		
			ENCE ON SEPARATE CD:		
			oration, 1995-1999 (as part of the D		
	Companion CD included wi	ith "Inside Direct3D", Micr	osoft Programming Series, Peter J	. Kovach, Microsoft Press, 1999)	
		TEXTBO	OOK REFERENCES:		
	II ' I D' - 2D# 16'	C.D	T. T. 1. N. C. D. 100		
			er J. Kovach, Microsoft Press, 199		
			Learning OpenGL, Release 1", Jac	kie Nieder, Tom David, Mason	
	Woo, Addision-Wesley Pub		ITIE D. M.C.	11:11 1000	
			Edition, David F. Rogers, McGra	IW HIII,1998	
	'Real-Time Rendering," To				
			Edition, The Systems Programmi	ng Series, Foley, van Dam,	
	Fiener, Hughes, Addison W		"Paying Edition Mishes OF	Josepha W. W. Monton C.	
	Company, 1998	sional Computer Animation	n", "Revised Edition, Michael O'R	ourke, w. w. Norton &	
*Examiner	Company, 1990	lD:	ite Considered		
	· · · · · · · · · · · · · · · · · · ·				

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.